STATUTORY INVENTION REGISTRATIONS

AND

DEFENSIVE PUBLICATIONS

JANUARY 1977 -- DECEMBER 1999



March 2000 U.S. PATENT AND TRADEMARK OFFICE OFFICE FOR PATENT AND TRADEMARK INFORMATION / TAF PROGRAM PK3 - SUITE 441, WASHINGTON, DC 20231 TEL (703) 306-2600/ FAX (703) 306-2737

A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

Statutory Invention Registrations and Defensive Publications Report 1/1977 - 12/1999 Explanation of Data

This Technology Assessment and Forecast (TAF) Program Report profiles patent activity for statutory invention registrations and defensive publications (hereafter referred to as patents) granted between 1977 and December 1999. The source of the data used for this report is the TAF data base maintained by the Office for Patent and Trademark Information.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "Pre 1986" column corresponds to the period January 1, 1977 through December 31, 1985.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 40% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 24 months, the patented application data for the most recent years are incomplete.* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in **December 1999**. Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is determined by many factors, including PTO

workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received one or more U.S. statutory invention registrations and/or defensive publications since 1977. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented application was filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

to statutory invention registrations and defensive publications are not available.

^{*} As of December 31, 1999, UTILITY patent application data (most issued patent documents are utility patents) were approximately 79% complete for patent applications filed in 1997 and 21% complete for applications filed in 1998. They are essentially complete for applications filed prior to 1997. Currently, completion percentages restricted

Part A1

Patent Grants As Distributed By Year of Patent Grant

		Patents	Granted	By Da	ate Of	Patent	Grant	(Granted:	Jan 01,	1977 -	Dec 31,	1999)					
							N	UMBER OF	PATENTS								
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total	
Total	503	179	213	167	157	143	144		144	117	121	109	78	62	60	2314	
U.S. Origin	423	172	203	160	134	123	128	98	131	105	111	94	65	56	56	2059	
Foreign Origin	80	7	10	7	23	20	16	19	13	12	10	15	13	6	4	255	
JAPAN	9	7	6	5	16	16	14	13	12	9	7	12	7	3	2	138	
UNITED KINGDOM	46		2	1	2	3	1			1						56	
CANADA	4		1		3	1		1	1	1	1		1	1		15	
GERMANY	8							2					1			11	
NETHERLANDS	4		1		1			1				1	1			9	
FRANCE	2							2		1	1			1		7	
SWITZERLAND	3										1	1				5	
INDIA	1						1					1				3	
ITALY				1	1									1		3	
BELGIUM													2		1	3	
AUSTRALIA	2															2	
INDONESIA													1			1	
SWEDEN	1															1	
SOUTH AFRICA															1	1	
Ownership:																	
U.S. Corporations	149	37	28	31	30	21	24		36	34	35	40	29	26	28	573	
U.S. Government	34	120	162	114	95	80	87	61	64	49	51	37	22	10	14	1000	
U.S. Individuals	249	15	17	16	14	24	19	13	31	24	25	19	18	19	13	516	
Foreign Corporations	36	6	5	5	11	12	10	11	8	9	5	7	3	6	3	137	
Foreign Government																0	
Foreign Individuals	35	1	1	1	7	6	4	7	5	1	5	6	6	1	2	88	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS	, 1977–1999	Page	A1-	2
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		Patents	Granted	By D	ate Of	Patent	Grant	(Granted:	Jan 01,	1977 -	Dec 31,	1999)					
								PERCENT OF									
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total	
_																	
Total	100	100	100	100	100		100		100	100	100	100	100	100	100	100	
U.S. Origin	84	96	95	96	85		89		91	90	92	86	83	90	93	89	
Foreign Origin	16	4	5	4	15	14	11	16	9	10	8	14	17	10	7	11	
				_					•	•	_			_			
JAPAN	2	4	3	3	10				8	8	6	11	9	5	3	6	
UNITED KINGDOM	9		1	1	1		1		_	1	_		_	_		2	
CANADA	1				2	1		1	1	1	1		1	2		1	
GERMANY	2							2				_	1			0	
NETHERLANDS	1				1			1			_	1	1	_		0	
FRANCE	_							2		1	1	_		2		0	
SWITZERLAND	1										1	1				0	
INDIA							1					1				0	
ITALY				1	1									2		0	
BELGIUM													3		2	0	
AUSTRALIA																0	
INDONESIA													1			0	
SWEDEN																0	
SOUTH AFRICA															2	0	
Ownership:																	
U.S. Corporations	30	21	13	19	19		17		25	29	29	37	37	42	47	25	
U.S. Government	7	67	76	68	61		60		44	42	42	34	28	16	23	43	
U.S. Individuals	50	8	8	10	9	17	13	11	22	21	21	17	23	31	22	22	
Foreign Corporations	7	3	2	3	7	8	7	9	6	8	4	6	4	10	5	6	
Foreign Government																0	
Foreign Individuals	7	1		1	4	4	3	6	3	1	4	6	8	2	3	4	

Part A2 Patent Grants As Distributed By Year of Patent Application

--- Technology Assessment and Forecast Report ----

Page A2- 1

88

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1999

Foreign Individuals

39

			_		_				_								
	Pa	tents G	ranted I	By Date	Of Pat	ent App	lication	(Grant	ed: Jan	01, 1977	- Dec 3	1, 1999)					
						N	UMBER OF	PATENTE	ED APPLIC	ATIONS							
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total	
Total	829	199	172	145	163	163	129	138	116	75	82	47	40	16		2314	
U.S. Origin	729	192	156	118	145	140	122	126	102	63	72	41	37	16		2059	
Foreign Origin	100	7	16	27	18	23	7	12	14	12	10	6	3			255	
JAPAN	23	6	12	19	17	17	6	10	9	9	4	4	2			138	
UNITED KINGDOM	48	1	3	3					1							56	
CANADA	5		1	3		3			2			1				15	
GERMANY	8			1			1				1					11	
NETHERLANDS	6				1				1	1						9	
FRANCE	2					2		2				1				7	
SWITZERLAND	3									2						5	
INDIA	1					1			1							3	
ITALY	1			1							1					3	
BELGIUM											3					3	
AUSTRALIA	2															2	
INDONESIA											1					1	
SWEDEN	1															1	
SOUTH AFRICA													1			1	
Ownership:																	
U.S. Corporations	224	25	28	23	25	30	37	38	43	26	24	20	20	10		573	
U.S. Government	238	154	117	83	93	87	54	62	45	23	23	13	6	2		1000	
U.S. Individuals	279	16	14	16	28	25	32	26	16	16	26	8	11	3		516	
Foreign Corporatio	ns 49	4	5	18	12	14	4	8	6	5	5	4	2	1		137	
Foreign Government																0	

STATUTORY INVENTION REGISTRATIONS AND DEFENSIVE PUBLICATIONS, 1977-1999 Page A2- 2

--- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 1999)

						P	ERCENT O	PATENTE	ED APPLIC	ATIONS							
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	
U.S. Origin	88	96	91	81	89	86	95	91	88	84	88	87	93	100		89	
Foreign Origin	12	4	9	19	11	14	5	9	12	16	12	13	8			11	
JAPAN	3	3	7	13	10	10	5	7	8	12	5	9	5			6	
UNITED KINGDOM	6	1	2	2					1							2	
CANADA	1		1	2		2			2			2				1	
GERMANY	1			1			1				1					0	
NETHERLANDS	1				1				1	1						0	
FRANCE						1		1				2				0	
SWITZERLAND										3						0	
INDIA						1			1							0	
ITALY				1							1					0	
BELGIUM											4					0	
AUSTRALIA																0	
INDONESIA											1					0	
SWEDEN																0	
SOUTH AFRICA													3			0	
Ownership:																	
U.S. Corporations	27	13	16	16	15	18	29	28	37	35	29	43	50	63		25	
U.S. Government	29	77	68	57	57	53	42	45	39	31	28	28	15	13		43	
U.S. Individuals	34	8	8	11	17	15	25	19	14	21	32	17	28	19		22	
Foreign Corporations	6	2	3	12	7	9	3	6	5	7	6	9	5	6		6	
Foreign Government																0	
Foreign Individuals	5		5	3	3	4	2	3	5	7	5	4	3			4	

Part B

Ranked Listing of Organizations with Patent Grants
As Distributed By Year of Patent Grant
and As Distributed By Year of Patent Application

Organizational Patenting				(Grante	ed: Jan (1, 1977	- Dec 31	, 1999)	F	anked Li	st of Or	ganizati	ons with	1 or	More Pat	cents
	Pre															
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL
UNITED STATES OF AMERICA, ARMY																
Patents By Year of Grant:	0	57	85	48	36	37	29	23	30	16	19	18	2	1	3	404
Patents By Year of Application:	71	79	50	32	42	29	24	35	26	10	1	4	1	0	0	404
UNITED STATES OF AMERICA, NAVY																
Patents By Year of Grant:	1	17	36	23	20	11	15	16	14	17	16	9	10	4	9	218
Patents By Year of Application:	46	36	24	13	18	17	17	12	10	7	10	4	4	0	0	218
UNITED STATES OF AMERICA, DEPARTMENT	OF ENERG	v														
Patents By Year of Grant:	3	24	17	16	18	17	20	8	10	6	5	0	1	1	0	146
Patents By Year of Application:	45	15	19	13	20	19	7	5	1	1	0	0	1	0	0	146
UNITED STATES OF AMERICA, AIR FORCE																
Patents By Year of Grant:	0	7	18	21	20	13	14	6	7	7	6	5	5	3	1	133
Patents By Year of Application:	24	19	23	20	7	10	5	6	6	3	5	4	0	1	0	133
SHELL OIL COMPANY	8	0	2	7	_	4	_	8	10	12	12	1.2	5	5	-	104
Patents By Year of Grant: Patents By Year of Application:	16	4	3 7	4	6 7	4 5	6 16	13	10 15	5	5	13 5	2	0	5 0	104
Patents by rear of Application:	10	*	,	4	,	5	10	13	13	3	5	3	2	U	U	104
UNITED STATES OF AMERICA																
Patents By Year of Grant:	2	13	5	5	0	1	6	5	3	3	5	5	4	1	1	59
Patents By Year of Application:	22	3	0	2	4	10	1	4	2	2	7	1	0	1	0	59
AT&T CORP.																
Patents By Year of Grant:	9	15	2	4	2	2	1	0	3	1	0	0	0	0	1	40
Patents By Year of Application:	28	1	3	0	2	2	1	2	0	0	0	0	1	0	0	40
CATERPILLAR INC.																
Patents By Year of Grant:	24	0	1	0	0	0	2	0	4	1	3	0	0	0	3	38
Patents By Year of Application:	24	1	0	0	0	1	3	1	4	1	0	0	1	2	0	38
1400105 27 1041 01 1155110401011		-	•	•		_		-	-	-	· ·	ū	-	_		
E. I. DU PONT DE NEMOURS AND COMPANY																
Patents By Year of Grant:	9	5	2	2	1	1	1	1	2	2	2	1	2	4	1	36
Patents By Year of Application:	15	3	0	3	2	1	1	2	1	1	0	2	4	1	0	36
FUJI PHOTO FILM CO., LTD																
Patents By Year of Grant:	0	5	0	1	6	6	4	3	1	5	1	2	2	0	0	36
Patents By Year of Application:	6	1	0	10	8	1	2	4	1	2	0	1	0	0	0	36
INTERD CHARGE OF AMEDICA TEMPERATERS	אדד שיי	₩¥ ₩₩														
UNITED STATES OF AMERICA, TENNESSEE V. Patents By Year of Grant:	ALLEY AU 21	THORITY 2	0	1	1	0	1	2	0	0	0	0	0	0	0	28
Patents By Year of Application:	23	1	1	1	2	0	0	0	0	0	0	0	0	0	0	28
- account of representations	23	-	-	_	_	Ü		v	v	•		v	·	·		

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	
	_																
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
INTERNATIONAL BUSINESS MACHINES CORPO																	
Patents By Year of Grant:	25 26	0 0	0	1 0	0 1	0	1 0	0	0	0	0	0	0	0	0	27 27	
Patents By Year of Application:	26	U	U	U	1	U	U	U	U	U	U	U	U	U	U	27	
IMPERIAL CHEMICAL INDUSTRIES PLC																	
Patents By Year of Grant:	25	0	0	0	0	0	0	0	0	1	0	0	0	0	0	26	
Patents By Year of Application:	25	0	0	0	0	0	0	1	0	0	0	0	0	0	0	26	
KONICA CORPORATION																	
Patents By Year of Grant:	0	0	0	0	3	0	2	4	7	2	2	5	0	0	0	25	
Patents By Year of Application:	0	0	2	1	1	11	1	3	2	3	1	0	0	0	0	25	
A. E. STALEY MANUFACTURING COMPANY																	
Patents By Year of Grant:	0	1	3	4	4	2	3	2	1	1	2	1	0	0	0	24	
Patents By Year of Application:	7	1	2	4	2	4	0	3	0	1	0	0	0	0	0	24	
EXXON PRODUCTION RESEARCH COMPANY																	
Patents By Year of Grant:	0	0	0	0	1	1	0	0	3	5	2	4	1	1	1	19	
Patents By Year of Application:	1	0	0	1	0	1	2	3	5	4	0	1	1	0	0	19	
W. R. GRACE & COCONN.																	
Patents By Year of Grant:	1	2	5	2	0	2	0	2	1	0	0	0	0	0	0	15	
Patents By Year of Application:	7	2	1	1	2	0	0	2	0	0	0	0	0	0	0	15	
PROCTER + GAMBLE COMPANY																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	1	3	7	2	0	14	
Patents By Year of Application:	1	0	0	0	0	0	0	0	2	4	6	0	1	0	0	14	
BRISTOL-MYERS SQUIBB COMPANY																	
Patents By Year of Grant:	0	0	0	0	2	2	0	0	1	2	1	0	1	2	1	12	
Patents By Year of Application:	1	1	1	2	0	1	0	1	1	0	0	2	2	0	0	12	
FMC CORPORATION																	
Patents By Year of Grant:	3	2	1	0	0	1	1	0	1	0	0	0	0	2	1	12	
Patents By Year of Application:	6	0	1	1	0	1	0	0	0	0	0	0	1	2	0	12	
DOW CHEMICAL COMPANY																	
Patents By Year of Grant:	0	0	1	1	0	0	0	1	1	0	4	1	1	0	1	11	
Patents By Year of Application:	0	1	1	0	0	1	2	1	3	0	0	1	1	0	0	11	
HERCULES INCORPORATED																	
Patents By Year of Grant:	4	0	0	0	0	0	0	1	1	1	0	1	1	1	0	10	
Patents By Year of Application:	4	0	0	0	0	1	1	1	0	1	2	0	0	0	0	10	

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
EASTMAN KODAK COMPANY																	
Patents By Year of Grant:	5	1	0	0	0	0	0	1	1	0	0	1	0	0	0	9	
Patents By Year of Application:	6	0	0	0	0	1	1	1	0	0	0	0	0	0	0	9	
UNITED STATES OF AMERICA, DEPARTMENT	OF AGRIC	ULTURE															
Patents By Year of Grant:	7	0	1	0	0	0	0	1	0	0	0	0	0	0	0	9	
Patents By Year of Application:	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	9	
XEROX CORPORATION																	
Patents By Year of Grant:	0	3	0	0	0	0	0	0	1	0	1	0	1	0	3	9	
Patents By Year of Application:	3	0	0	0	0	0	2	0	0	0	1	1	2	0	0	9	
CONCO INC.																	
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
KIORITZ CORPORATION																	
Patents By Year of Grant:	0	0	3	1	1	1	1	0	0	0	1	0	0	0	0	8	
Patents By Year of Application:	2	3	1	1	0	0	0	0	1	0	0	0	0	0	0	8	
MEDTRONIC INC.																	
Patents By Year of Grant:	0	2	1	1	0	0	0	1	0	1	1	0	0	0	0	7	
Patents By Year of Application:	4	0	0	0	0	1	0	1	1	0	0	0	0	0	0	7	
EXXON RESEARCH + ENGINEERING CO.																	
Patents By Year of Grant:	0	0	2	1	1	2	0	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	1	1	3	0	1	0	0	0	0	0	0	0	0	0	0	6	
ATLANTIC RICHFIELD COMPANY																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	1	0	1	0	0	1	5	
Patents By Year of Application:	2	0	0	0	0	0	0	1	0	0	2	0	0	0	0	5	
FIRESTONE TIRE & RUBBER CO.																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
GENERAL ELECTRIC COMPANY																	
Patents By Year of Grant:	3	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
WESTINGHOUSE ELECTRIC CORP.																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	

Organizational Patenting				(Grante	ed: Jan (1, 1977	- Dec 31	, 1999)	F	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
CETUS CORPORATION																	
Patents By Year of Grant:	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	4	
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
MINNESOTA MINING AND MANUFACTURING CO	MPANY																
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	4	
Patents By Year of Application:	1	0	0	0	0	0	1	0	0	1	1	0	0	0	0	4	
MOTOROLA, INC.																	
Patents By Year of Grant:	0	0	0	0	2	0	0	0	1	0	0	0	0	1	0	4	
Patents By Year of Application:	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0	4	
AMERICAN CYANAMID COMPANY																	
Patents By Year of Grant:	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
BEXFORD LIMITED																	
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
CHRYSLER MOTORS CORPORATION																	
Patents By Year of Grant:	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	3	
Patents By Year of Application:	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	3	
GILLETTE COMPANY																	
Patents By Year of Grant:	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	3	
Patents By Year of Application:	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	3	
ISHIHARA SANGYO KAISHA LTD.																	
Patents By Year of Grant:	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3	
MI DRILLING FLUIDS COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	3	
Patents By Year of Application:	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	3	
NAVISTAR INTERNATIONAL TRANSPORTATION	CORP.																
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
RHONE-POULENC INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3	
racence by rear or Appricacion:	U	U	U	U	U	U	U	U	U	3	U	U	U	U	U	,	

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1999)	F	Ranked Li	st of Or	ganizati	ons with	1 or 1	More Pat	tents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
SMITH INTERNATIONAL INC.																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	
Patents By Year of Application:	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	
UNITED STATES OF AMERICA, HEALTH & HU	MAN CEDI	TORG															
Patents By Year of Grant:	MAN SERV 0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	3	
Patents By Year of Application:	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	3	
racence by rear or appricacion.	Ū	v	Ū	-	J		Ū	Ū	Ū	Ū	J	Ū	Ū	v	Ū	3	
ADVANCED NUCLEAR FUELS CORPORATION																	
Patents By Year of Grant:	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
BEXFORD LIMITED IMPERIAL CHEMICAL HOU	SE																
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
DSC/CELCORE, INC.						_									_	_	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
FORD MOTOR COMPANY																	
Patents By Year of Grant:	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
1400100 D, 1041 01 1.FF110401011	=	·	•	ū	ū	· ·	•	· ·		_	ū	· ·	· ·	·	•	_	
HOECHST CELANESE CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2	
KEARNEY + TRECKER CORPORATION																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
LUBRIZOL CORPORATION						_							_			_	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	
MALLINCKRODT, INC.																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
racense 2, rear or approactor.	_	v		•	v	·	v	•	v		Ū	·	v	v	·	_	
MITSUBISHI RAYON CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	
	_																
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
MOBIL OIL CORP.																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	U	0	0	0	0	0	U	0	0	0	0	0	0	2	
NIKON CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	
NIPPONDENSO CO., LTD.																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
OTIS ENGINEERING CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	
Patents By Year of Application:	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	
POLAROID CORPORATION																	
Patents By Year of Grant:	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
RCA CORPORATION																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
RECOGNITION EQUIPMENT INCORPORATED																	
Patents By Year of Grant:	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
SONY CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	
SUN MICROSYSTEMS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	
TEXACO CHEMICAL COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	
Patents By Year of Application:	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
UNITED STATES BORAX + CHEMICAL CORPOR																	
Patents By Year of Grant:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Patents By Year of Application:	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
VISKASE CORPORATION																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	
AHLSTROM MACHINERY, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
AKZO NOBEL NV																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
ALCAN ALUMINUM CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
ALLIED-SIGNAL INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
ARCO CHEMICAL TECHNOLOGY, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
ARIMETCO, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
AUBURN UNIVERSITY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
BABOLAT VS																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
BASF CORP.																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BATESVILLE CASKET COMPANY, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	

Organizational Patenting				(Grante	ed: Jan (1977	- Dec 31,	, 1999)	R	anked Li	st of Or	ganizati	ons with	1 or	More Pat	tents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
BBC BROWN, BOVERI & COMPANY, LIMITED																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BEDFORD LIMITED																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BELOIT TECHNOLOGIES, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
BOSTON UNIVERSITY																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BP AMERICA INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
BRAND INSULATIONS, INC.																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
BRUNSWICK CORPORATION			_				_	_	_						_	_	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
BURROUGHS WELLCOME CO.	•	•	•	0	1	0	•	•	•	•	•	•	•	•	•	1	
Patents By Year of Grant: Patents By Year of Application:	0	0	0 1	0	0	0	0	0	0	0	0	0	0	0	0	1	
CARPENTER TECHNOLOGY CORPORATION	Ū	Ū	-	Ū	Ū	U	Ū	Ū	Ū	Ū	Ū	Ū	Ū	Ū	v	-	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CENTRAL SPRINKLER CORPORATION																	
Patents By Year of Grant:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
CLAIROL INCORPORATED																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 1999)	F	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	tents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
COBE LABORATORIES, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
CPT CORPORATION																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
CRAY RESEARCH, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
CREATACARD, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
CDVOVA C TAYO																	
CRYOVAC, INC. Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
racence by rear or apprication:	U	U	U	U	U	U	U	U	U	U	U	U	U	_	U	_	
CYTOGEN CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
DAINIPPON SCREEN MFG. CO., LTD.																	
Patents By Year of Grant:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
DATA GENERAL CORP.																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
EASTMAN CHEMICAL COMPANY	•	•	•	•	•	•	•	•	•	•	•	•		•	•	-	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	U	U	0	0	0	0	0	1	U	U	0	1	
ELECTRIC POWER RESEARCH INSTITUTE, INC																	
Patents By Year of Grant:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	_			•								ū	•			-	
ELF ATOCHEM NORTH AMERICA, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	
	_																
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
EMERSON ELECTRIC CO.																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
THE THE PARTY OF T																	
EMHART INDUSTRIES, INC. Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
racence by rear or application.	•				•	•	•	•		•	•	•	· ·		•	_	
EXXON CHEMICAL COMPANY LAW TECHNOLOGY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
EXXON CHEMICALS PATENTS INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
TIPEDITE VODEN ANTERIOR TVO																	
FIBERWEB NORTH AMERICA, INC. Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
racenes by rear or apprication:	· ·	U	· ·	U	U	U	· ·	U		· ·	U	U	· ·	U	U		
FUJI HUNT PHOTOGRAPHIC CHEMICALS INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
GENETICS INSTITUTE, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
arvae aventara a rva																	
GLYCO CHEMICALS, INC.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Grant: Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
racence by rear or application.		J				•	•	•	J	•	•	•	· ·		· ·	_	
GRACE ITALIANA S.P.A.																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
GREAT LAKES CHEMICAL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
CHE MODILE COMMUNICATIONS SERVICES CON	DOD A MT C																
GTE MOBILE COMMUNICATIONS SERVICE CORP Patents By Year of Grant:	PORATION 0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
1 decired by rear or imprincation.	·	v		ŭ			, ,	·	-	<u> </u>		•	· ·	·	J	*	

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1999)	F	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	-
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
HALLIBURTON CO.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
HAY & FORAGE INDUSTRIES																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
HENKEL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
HENNING BERLIN GMBH CHEMIE- UND PHARMA	WERK																
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
HEUER-LEONIDAS S.A.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
HUTCHINSON TECHNOLOGY INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
ICI AMERICAS INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
K. W. MUTH COMPANY, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
KANEGAFUCHI CHEMICAL INDUSTRY CO., LTI	· .																
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
KAO KABUSHIKI KAISHA (KAO CORPORATION)																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
KENNECOTT CORPORATION																	
Patents By Year of Grant:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

Organizational Patenting				(Grante	ed: Jan (1, 1977	- Dec 31,	, 1999)	R	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	tents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
KIMBERLY-CLARK CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
KIMBERLY-CLARK WORLDWIDE, INC.															•	_	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0 1	0	0	0	1	
Patents By Year of Application:	U	U	U	U	U	U	U	U	U	U	U	1	U	U	U	1	
KOBE, INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
LORILLARD TOBACCO COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
LUCENT TECHNOLOGIES INC.	•	•	•	•	^	^	•	•	•	•	•	•	•	-	•		
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	U	U	U	U	U	U	U	U	U	U	1	U	U	U	U	1	
MACHINE BUILDERS AND DESIGN, INC.																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
MEAD CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
METTON AMERICA, INC.	•	•	•	•	^	^	•	•	•	•	•	•	•	•			
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
racenes by rear or appricacion:	O	U	U	Ū	U	U	U	U	U	Ū	U	U	U	_	U	-	
MINOLTA CAMERA CO., LTD.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
MITSUBISHI OIL CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
VOLT THE CITY (1999) A THE CITY																	
MOLI ENERGY (1990) LIMITED	0	0	0	0	0	0	0	0	0	0	0	•	0	1	•	1	
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1 1	
racence by rear or appricacion:	U	U	U	U	U	U	U	U	U	U	U	_	U	U	U	_	

Omani-stissal Patratis				(Cr1	d. 7 1	1 1077	Do = 21	1000	_	anka - T	at of 0		ong!+1-	1	Mone De	onta	
Organizational Patenting				(Grante	ea: Jan (11, 1977	- Dec 31	, 1999)	R	anked Li	st or Or	ganizati	ons with	. ı or	more Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
MONSANTO COMPANY, INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
MOORE BUSINESS FORMS INC.	0	0		•	0	0	0	0	•	0	0	0	•	0	0	1	
Patents By Year of Grant: Patents By Year of Application:	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1 1	
Patents by Year of Application:	U	1	U	U	U	U	U	U	U	U	U	U	U	U	U	1	
MORTON THIOKOL, INC.																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	_	-	-	-	-	-	-	-	•	-	-	-	-	-	-	_	
NATIONAL SEMICONDUCTOR CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NEW VENTURE GEAR, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
NGK SPARK PLUG CO., LTD.	•	•	•		•	•	•	•	•	•	•	•	•	•	•	-	
Patents By Year of Grant: Patents By Year of Application:	0 1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1 1	
Pacenics by fear of Application:	_	U	U	U	U	U	U	U	U	U	U	U	U	U	U	1	
NIHON NOHYAKU CO. LTD.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
NITTO BOSEKI CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
NORDSON CORPORATION		_									_	_				_	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
NORTON COMPANY																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
NUTRASWEET COMPANY																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
OCCIDENTAL CHEMICAL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
OKI AMERICA, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
OKURA YUSOKI KABUSHIKI KAISHA																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
OTIS ELEVATOR COMPANY	0	0	0	0	1	0	0	0	0	•	0	0	0	0	0	1	
Patents By Year of Grant: Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
racence by rear or appricacion.	•	· ·	_	•	· ·	J	J	· ·	J	•	•	•	· ·	·		-	
PALL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
PENNSYLVANIA DEPARTMENT OF TRANSPORTA																	
Patents By Year of Grant:	1 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	U	0	0	U	0	U	U	U	U	U	1	
PPG INDUSTRIES INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
PROCESS LAB. MICRON CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
PULLMAN, INCORPORATED																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
QUANTUM CHEMICAL CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
R. J. REYNOLDS TOBACCO COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1999)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	-
	Pre 1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
REYNOLDS METALS COMPANY																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
RHONE-POULENC AG COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
RHONE-POULENC CHEMICALS LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
RHONE-POULENC RORER PHARMACEUTICALS I	NC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
RHONE-POULENC SECTEUR AGROCHIMIE																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
RICHARD WOLF GMBH																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
RICHARDSON CHEMICAL COMPANY																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
ROGERS CORPORATION																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
SASOL TECHNOLOGY (PROPRIETARY) LIMITE	D																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
SEAGATE TECHNOLOGY, INCORPORATED																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
SEMATECH, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 1999)	F	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	tents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
SEMICONDUCTOR ENERGY LABORATORY CO.,	T IIID																
	о о	0	0	0	0	0	0	0	0	0	0	0	1	0	^	1	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	U	U	U	U	U	U	U	U	U	U	1	U	U	U	U	1	
SHIONOGI + CO. LTD.	_		_				_					_	_		_		
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
SIMPSON STRONG-TIE COMPANY, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
SINCLAIR OIL CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
SONY ELECTRONICS INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
STANDARD OIL COMPANY																	
Patents By Year of Grant:	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
STERLING CHEMICALS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
ratenes by rear of Application.	Ū	Ü	Ü	Ü	Ü	Ü	Ū	Ü	Ü	Ü	Ü	-	Ū	Ü	Ū	-	
TANDEM COMPUTERS INCORPORATED																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
TOKYO ROPE MANUFACTURING CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
TOWMOTOR CORPORATION																	
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
TOYOTA JIDOSHA K.K.																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

Organizational Patenting				(Grante	ed: Jan (01, 1977	- Dec 31	., 1999)		Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	ents	
	Pre																
	1986	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	TOTAL	
VII TO DO TATO GODDO DA TOM																	
ULTRAPOINTE CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
UNITED TECHNOLOGIES CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
-	-	0		-		-	-			•	0	0	-	•	•	-	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	U	U	0	0	0	1	
WANGNER SYSTEMS CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
WHIRLPOOL CORPORATION																	
Patents By Year of Grant:	- 1	0	0	0	0	0	0	0	0	•	0	0	0	0	0	-1	
-		0		•		-	-		0	0	-	-	-	-	•		
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Other Organizations (0)																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	